PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

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NOTIFICATION CONCERNING TRANSMITTAL OF COPY OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OF THE PATENT COOPERATION TREATY)

(PCT Rule 44bis.1(c))

LICATA, Jane, Massey Licata & Tyrell P.C. 66 E. Main Street Mariton, NJ 08053 **ETATS-UNIS D'AMERIQUE**

Date of mailing (day/month/year) 10 November 2005 (10.11.2005)

Applicant's or agent's file reference DRE-0151

IMPORTANT NOTICE

International application No. PCT/US2004/012965 International filing date (day/month/year) 28 April 2004 (28.04.2004)

Priority date (day/month/year) 28 April 2003 (28.04.2003)

Applicant

DREXEL UNIVERSITY et ai

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

> The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Dorothée Mülhausen

Facsimile No.+41 22 740 14 35

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Form PCT/IB/326 (January 2004)

PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference DRE-0151	FOR FURTHER ACTION	See item 4 below	
International application No. PCT/US2004/012965	International filing date (day/month/year) 28 April 2004 (28.04.2004)	Priority date (day/month/year) 28 April 2003 (28.04.2003)]	
International Patent Classification (IP B32B 19/00, 9/00	C) or national classification and IPC		
Applicant DREXEL UNIVERSITY			<u></u>

1.	This international preliminary r International Searching Author	report on patentability (Chapter I) is issued by the International Bureau on behalf of the ity under Rule 44 bis.1(a).	
2.	 This REPORT consists of a total of 4 sheets, including this cover sheet. In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead. 		
3.	This report contains indications	relating to the following items:	
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.	The International Bureau will conot, except where the applicant rdate (Rule 44bis .2).	mmunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but nakes an express request under Article 23(2), before the expiration of 30 months from the priority	

·	Date of issuance of this report 28 October 2005 (28.10.2005)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Dorothée Mülhausen
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 87 40

PATENT COOPERATION TREATY

INTERNATIONAL SEARCHING AUTI	HORITY		BEGID 17 AUG 2000
To: JANE MASSEY LICATA LICATA & TYRRELL P.C. 66 E. MAIN STREET MARLTON, NJ 08053		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	
		112141111	(PCT Rule 43bis.1)
		Date of mailing (day/month/year)	1 5 AUG 2009
Applicant's or agent's file reference		FOR FURTHER	ACTION See paragraph 2 below
DRE-0151			
International application No.	International filing date (re (day/month/year) Priority date (day/month/year)	
PCT/US04/12965 International Patent Classification (IPC)	29 April 2004 (29.04.200 or both national classificati	004) 28 April 2003 (28.04.2003)	
IPC(7): B32B 19/00, 9/00 and US Cl.: 4			
Applicant	20/090, 290.1, 97 II/DIO.1, -	211312.2, 442110	
DREXEL UNIVERSITY			
This opinion contains indications re	elating to the following items	3:	
Box No. 1 Basis of th	e opinion		
Box No. II Priority		·	
Box No. III Non-estab	lishment of opinion with reg	gard to novelty, inver	ntive step and industrial applicability
` <u> </u>	nity of invention		
Box No. V Reasoned applicabil	statement under Rule 43 <i>bis</i> . ity; citations and explanation	1(a)(i) with regard to as supporting such st	o novelty, inventive step or industrial atement
Box No. VI Certain do	cuments cited		
Box No. VII Certain de	fects in the international app	olication	
Box No. VIII Certain ob	servations on the internation	al application	
International Preliminary Examini	ing Authority ("IPEA") ex the IPEA and the chosen	cept that this does PEA has notified th	be considered to be a written opinion of the not apply where the applicant chooses an a laternational Bureau under Rule 66.1bis(b) ered.
IPEA a written reply together, whe of Form PCT/ISA/220 or before the	re appropriate, with amendate expiration of 22 months from	nents, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.
For further options, see Form PCT/ 3. For further details, see notes to Form		٠	
Name and mailing address of the ISA/U Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450	is	Authorized office Ling X. Xt Telephone No. 5	auf Willy

Facsimile No. (703) 305-3230 Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/12965

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation from the purposes of international search (under Rules 12.3 and 23.1(0)). 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(e) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:	ROX MC	5.1 Basis of this opinion
was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furmished for the purposes of international search (under Rules 12.3 and 23.1(b)). With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b. format of material in written format in computer readable form c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		and the language in which it
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b. format of material in written format in computer readable form c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	a.	type of material
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in computer readable form c. time of filing/furnishing		table(s) related to the sequence listing
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filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	C.	time of filing/furnishing
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or furnished, the required statements that the information in the subsequent of additional deposition of additional deposition as filed or does not go beyond the application as filed, as appropriate, were furnished.	,	furnished subsequently to this Authority for the purposes of search.
4. Additional comments:	3.	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US04/12965

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. Statement			
Novelty (N)	Claims 5	YES	
	Claims 1-4		
Inventive step (IS)	Claims 5	YES	
	Claims 1-4		
Industrial applicability (IA)	Claims 1-5	YES	
	Claims NONE		
2. Citations and explanations:			
Claims 1-4 lack novelty under PCT Article 33(2) as	being anticipated by Niihara et al (JP-06-087	657).	
Niihara discloses a composite material comprising i material. The nancomposite material comprises niti dispersed in the nanocomposite.	norganic fiber reinforced ceramic composite a ride of aluminum and boron. Niihara also disc	and nitride based nanocomposite closes that the nitride particles are	
Claim 5 meets the criteria set out in PCT Article 33	(2)-(3), because the prior art does not teach or	fairly suggest the claimed invention.	
Claims 1-5 meet the criteria set out in PCT Article 3 be made or used in industry.	3(4), and thus have industrial applicability be	cause the subject matter claimed can	
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